Claims:

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1. A polishing pad for precise polishing of the surface of a lapped glass workpiece for use in data recording media, the polishing pad comprising:

a base and a polishing portion laminated on the surface of said base and contacting the surface of the glass workpiece when polishing the glass workpiece;

said polishing portion being formed of a foam made of a synthetic resin having a 100% modulus of 11.8 MPa or less; and

the maximum height, Rmax, of the surface roughness of said polishing portion, being 70 µm or less.

- 2. The polishing pad according to claim 1, wherein the polishing pad is subjected to a dressing treatment with a load of 25 to 45 gf/cm^2 for 10 to 40 minutes.
- 3. The polishing pad according to claim 1, wherein the period of time for said polishing portion to reach its durability limit is 125 hours or more.
 - 4. The polishing pad according to claim 1, wherein the surface roughness, Ra, of said polishing portion is 7 μm or less.
 - 5. A method for manufacturing a glass substrate for use in data recording media in which a polishing pad is used, the method comprising:
- contacting the surface of a lapped glass workpiece with the polishing pad with a load of 35 to 70 gf/cm² on the lapped glass workpiece; and

polishing the lapped glass workpiece over a polishing period time in units of minute such that the product between the polishing period of time and said load in units of gf/cm^2

is 160 or more.

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6. A method for manufacturing a glass substrate for use in data recording media, the method comprising:

lapping a glass workpiece by use of a hard pad and a polishing agent containing particles of about 1.2 μm in average particle size; and

polishing the glass workpiece obtained in said lapping by use of a soft pad and a polishing agent containing particles of about 0.6 μm in average particle size.

- 7. The method according to claim 6, wherein in said polishing the glass workpiece obtained, the soft pad is made to contact the glass workpiece with a load of 35 to 70 gf/cm^2 , and the product between the load in units of gf/cm^2 and the polishing period of time in units of minute is 160 or more.
- 8 . The method according to claim 6, wherein said lapping includes an amount of grinding of 30 to 40 $\mu m_{\rm \bullet}$
- 9. The method according to claim 6, wherein said polishing of the glass workpiece obtained includes an amount of grinding of 0.5 to 10 $\mu m\,.$
- 25 10. A glass substrate for use in data recording media manufactured by the method according to claim 5, wherein:

the micro-waviness height is 0.3 nm or less measured by using a three dimensional surface structure analysis microscope, with the measurement wavelengths, λ , set to fall within the range from 0.18 to 0.40 mm.